

# DH-PTZ36432-HNR-XB

4MP 25x Starlight WizSense Network Positioning System



Wiz Sense

- 1/1.8" 4Megapixel CMOS
- · 25x optical zoom, and 16x digital zoom
- Starlight technology
- Max. 4MP @ 50/60 fps
- Auto positioning recovery
- Auto-tracking, perimeter protection, and face detection
- · SMD Plus, video metadata
- Pan: 360° endless; Tilt: -90°to 90°, auto flip 180°













Dahua WizSense is a series of AI products and complete end-to-end solution based on deep-learning. focuses on human and vehicle, benefiting everyone with intelligent functions, simple configuration and inclusive products.

#### **System Overview**

The product is equipped with neural network processor; it supports WizSense intelligent functions to effectively improve the detection accuracy, supports people, motor vehicle and non-motor vehicle image capture, and supports perimeter protection.

#### **Functions**

#### Video Metadata

Supports detection of motor vehicles, non-motor vehicles, human faces and human bodies. Supports tracking, capturing pictures, and uploading high-quality snapshots.

#### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets to improve alarm accuracy.

#### **Face Detection**

Supports 6 attributes and 8 expressions, face enhancement, and attributes extraction.

#### Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

#### **PFA Technology**

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

#### **Auto-tracking**

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

### **SMD Plus**

With Deep-Learning Algorithm, Dahua SMD Plus flters the moton detecton alarm triggered by non-concerned target and recognizes human and vehicle effectively, sending alarms when human and vehicle intrude.

#### **Auto Positioning Recovery**

Camera sticks to its set positioning, if there is external force make it turn, once the force is gone, camera will recover to correct position automatically.



Technical Specification	n			Perimeter Protection	Tripwire, intrusion, abandoned object and missing object. Supports triggering alarms based on human and vehicle classification and tracking linkage.
Camera				Face Detection	Support
Image Sensor	1/1.8" CMOS			SMD Plus	Support
Pixel	4MP			Auto Tracking	Support
Max. Resolution	2560 (H)×1440 (V)			Video	
ROM	4 GB				H.264; H.265; H.264B; H.264H; MJPEG (Sub Stream);
RAM	1 GB			Compression	Smart H.265+; Smart H.264+
Electronic Shutter Speed	1/1 s-1/100000 s			Streaming Capability	3 streams
Scanning System	Progressive		Resolution	4M(2560×1440);3M(2048×1536);1080P(1920×1080); 720P(1280×960);D1(704×576/704×480);CIF(352×28	
Min. Illumination	Color: 0.001 Lux@F1.6 B/W: 0.0001 Lux@F1.6		Frame Rate	8/352×240)  Main stream: 4M/3M/1080P/ 1.3M/ 720P (1–50/60fps)	
Illumination Distance	N/A			Sub stream 1: D1/CIF(1–25/30fps) Sub stream 2: 1080P/1.3M/720P(1–25/30fps), D1/ CIF(1–25/30fps)	
Illuminator On/Off Control	N/A			Bit Rate Control	Variable/Constant
Illuminator Number	N/A	N/A			H.264: 32 Kbps-8192 Kbps
Lens				Bit Rate	H.265: 32 Kbps—8192 Kbps
Focal Length	5.4 mm-135 mm			Day/Night	Auto (ICR)/Color/B/W
Max. Aperture	F1.6-4.0			BLC	Support
Field of View	H: 61.6°–3.6°; V: 35.7°–2°; D: 66.6°–4			WDR	120 dB
Optical Zoom	25x			HLC	Support
Focus Control	Auto/Semi-Auto/Manual			White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Close Focus Distance	0.1 m-2 m			Gain Control	Auto/Manual
Iris Control	Auto			Noise Reduction	2D/3D
	Detect Observe	Recognize	Identify	Motion Detection	Support
DORI Distance	1724 m 689 m (5656.16 ft) (2260.50	344 m (1128.61 ft)	172 m (564.30 ft)	Region of Interest (RoI)	Support
PTZ				Image Stabilization	Electronic
Pan/Tilt Range	Pan: 0°–360° endless	flin 190°		Defog	Electronic
Manual Cantual Canada	Pan: 0.1°/s–120°/s	Tilt: -90° to +90° auto flip 180°  Pan: 0.1°/s-120°/s		Digital Zoom	16x
Manual Control Speed	Tilt: 0.1°/s-75°/s	Tilt: 0.1°/s–75°/s		Flip	180°
Preset Speed	Pan: 160°/s; Tilt: 110°/s			Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Presets		300			≥ 55 dB
Tour	8 (up to 32 presets per tour)			Audio	
Pattern	5			Compression	G.711A; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723
Scan	5			Network	G.722.1, G.723, G.723
Power-off Memory	Support			Ethernet	RJ-45 (10/100Base-T)
Idle Motion	Preset/Tour/Pattern/Scanning			IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;	
Protocol DH-SD Pelco-P/D (auto recognition)		Protocol	UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/v2c/v3 (MIB-2); RTCP; RTMP		
Artifical Intelligence			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
Video Metadata	Supports detecting motor vehicles, non-motor vehicles, human faces and human bodies. Supports tracking capturing pictures, and uploading high-			Streaming Method	Unicast/Multicast
	tracking, capturing pictures, and uploading high- quality snapshots.		User/Host	20 (total bandwidth 64M)	

## **Wiz Sense** | DH-PTZ36432-HNR-XB

Storage	FTP; Micro SD card (256G); NAS
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS
Mobile Phone	iOS; Android

## Certification

Certifications	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014

## Port

Audio In	1 (LINE IN; bare wire)
Audio Out	1 (LINE OUT; bare wire)
Two-way Audio	Support
Alarm In	2 digital inputs (0–5V DC)
Alarm Out	1
Alarm Linkage	Capture; preset; tour; pattern; SD card record; trigger digital output; client electronic map; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; encoder state detection; memory card state detection; memory space detection

### Power

Power Supply	DC 12V/4A ± 10% PoE+ (802.3at)
Power Consumption	Basic: 14W Max: 23W (PTZ operations)

### Environment

Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤ 95%
Protection	IP67; TVS 8000V lightning proof; surge protection; voltage transient protection

## Structure

Dimensions	161.0 mm × 135.3 mm × 302.7 mm
Net Weight	3.6 kg (7.93 lb)
Gross Weight	6.4 kg (14.11 lb)

## Dimensions (mm[inch])





